

Combimate dual-fit Scale Reducer -

**Protecting Hot Water Appliances
from Limescale Attack**

The largest percentage of minerals in our cold water supply occurs naturally - most of them are harmless, indeed some are regarded as beneficial e.g. calcium.

In 'hard' water areas heating water above 40°C. results in limescale encrustation around elements and internal pipework. The efficiency of the system is reduced leading to increased running costs and premature repair.

One solution lies in 'softening', a relatively costly process using a salt-based chemical reaction which changes the water and removes the offending minerals.

Fortunately there is a proven, effective alternative that is both simple and reliable - treating cold water using the Combimate dual-fit with Siliphos. Using one of two installation options - 'single appliance' or 'whole house' - Combimate inhibits the formation of limescale without the need for separate drinking taps or regular salt replacement.

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**SCALE PREVENTION
WITH GUARANTEED
PERFORMANCE**

WRAS
APPROVED
PRODUCT

How the Combimate dual-fit works

The Combimate dual-fit has been designed as a 'user-friendly' dispenser to fully exploit the benefits of Siliphos. Siliphos is a harmless compound using 100% 'food grade' materials which are manufactured in spheres of known size and hardness.

When in contact with water, Siliphos is released in very small quantities, sufficient to keep the mineral ions in suspension. This action prevents the precipitation of scale while retaining the health benefits of the natural minerals.

A secondary effect of Siliphos coats the inside of pipework with a non-residual, microscopic, protective coating.



Installing the Combimate dual-fit

There are two possible installations; complete supply or single appliance. In the first case the unit is plumbed-in after the stop valve, on the cold water supply to the premises.

The second situation is usually to protect the boiler when the unit is plumbed-in on the cold water inlet. A removable divider tray reduces the amount of Siliphos required.

Inlet and outlet connections use 15mm compression fittings and a variety of positions are possible to suit existing pipework.

It is recommended that the Combimate is fitted at least 0.5m from any local sources of heat.

Tried and tested

The polyphosphate compound used for Siliphos is specifically developed as an anti-scaling agent.

Widespread use of the dosing technique over many years, in the U.K. and overseas, has proven it to be reliable and effective.

Combimate and Siliphos is endorsed by major users and installers including British Gas, several Housing Assocs. and Local Councils. Siliphos also protects pipework from corrosion in acid water conditions.

Health and Safety

Siliphos is tasteless and odourless and meets the necessary WHO requirements to be classed as a 'food grade' additive.

The quantity, size and hardness of the spheres controls the amount released. Typically this is 2-3 gm per cu.m. of water and perfectly safe for human consumption.



Servicing and Maintenance

The Combimate dual-fit is manufactured to high quality standards and is an approved fitting conforming to current water regulations (WRAS). Routine servicing is limited to ensuring the condition and quantity of Siliphos is maintained.

In time the volume of Siliphos gradually reduces, the level can be 'topped-up' once or twice per year by removing the outer cover and adding spheres as necessary. The cover is removed by depressing two red buttons to either side and withdrawing it forward. As the cover is released an in-built valve mechanism shuts off the water supply allowing access to the Siliphos dome.



In some cases usage will be such that few spheres are required, even after some time. It is therefore strongly recommended that the entire Siliphos contents are replaced annually irrespective of their apparent condition. Siliphos replacement packs containing sufficient Siliphos to re-fill the unit plus a new 'O' ring seal are available from merchant stockists.

Note: Siliphos does not 'soften' the water

Cistermiser

Cistermiser Limited
Unit 1, Woodley Park Estate
59-69 Reading Road, Woodley
Reading, Berkshire RG5 3AN

Tel: 0118 969 1611

Fax: 0118 944 1426

Email: sales@cistermiser.co.uk

www.cistermiser.co.uk

